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ANNUAL REPORT

OF THE DIRECTOR OF THE SOUTH AFRICAN MINT
FOR THE YEAR 1 APRIL 1978 TO 31 MARCH 1979

REPUBLIC OF SOUTH AFRICA.

SOUTH AFRICAN MINT

The Secretary for Finance
Union Buildings
PRETORIA.

ANNUAL REPORT OF THE DIRECTOR OF
THE SOUTH AFRICAN MINT FOR 1978/79.

I wish to submit the following report on the activities of the South African Mint during the financial year 1st April, 1978 to 31st March, 1979.

INTRODUCTION

Coinage production during the year amounted to 203 million coins which is a decrease of 44% in the 293 million produced in the previous year. This considerable decrease is the result of there having been no coins produced for foreign countries as against the 43 million during the previous year. The decrease in the production of local coins was 19% which is related to the particularly large orders by the commercial banks during the two previous years and which accounted for there still being considerable surplus stocks held by the banks.

The sales of circulation coins amounted to R23 449 205 against the R25 656 877 of the previous year. Despite the decrease the sales are still high as a result of the additional issue of the new R1 nickel coin of R21,9 million.

The demand for the uncirculated Krugerrand which is marketed by the Chamber of Mines of South Africa mainly overseas continued to increase and 5,2 million were delivered as against the 4,2 million during the previous year.

There was a continued demand for collector's coins with an increase particularly for the Proof Krugerrand and those coin sets which include gold coins. 10 000 Proof Krugerrands were produced and total sales amounted to R5,4 million which is an increase of 28% over the previous year and which yielded a profit of R1,8 million.

Despite the higher sales the profit was actually lower as compared to the previous year as a result of the adjustment in the purchase price of gold from the monetary to the free market price.

The total sales of all Mint products for the year amounted to R51 755 908 yielding a nett profit of R23 673 873.

A further 22 million of the new R1 nickel coins were issued to bring the total of the first issue of this coin to 40 million. It would appear that this is sufficient for the introduction of the new coin and that future demand will be limited to the normal annual increase.

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A very special occasion was the official opening of the new South African Mint by the State President Mr. B.J. Vorster on the 22nd of November, 1978. The new building is now fully occupied and visitors are again permitted.

During the year I had the privilege of attending the Tenth Mint Directors' Conference held in Rome, Italy.

The financial statements and the activities of the various departments are set out in the following chapters.

J.J. GROENEWALD
DIRECTOR OF THE S.A. MINT.

CHAPTER I - FINANCIAL

COMBINED MANUFACTURING, TRADING AND PROFIT AND LOSS ACCOUNT FOR THE YEAR ENDED 31 MARCH, 1979

1977/78 R				1978/79 R
	EXPENDITURE:			
99 877	Work in progress 1 April 1978			101 080
2 361 522	Coin stocks on hand 1 April 1978 at cost			5 319 296
	Operating costs for year:			29 219 632
25 907 164	Bullion	27 945 860		
1 074 559	Conversion costs	1 273 772		
380 563	Sales Expenses			321 106
21 689	Credit allowed in the manufacture of coin for foreign governments			-
29 845 374				34 961 114
	LESS:			
-	Value of new coin issued in replacement of old coin withdrawn from circulation.			-
5 319 296	Coin stocks 31 March 1979 at cost			6 626 423
101 080	Work in progress 31 March 1979			252 656
24 424 998				28 082 035
	RECEIPTS			
50 846 145	Sales			51 755 908
-	Value of bullion taken on charge ex recoinage accounts			-
50 846 145				51 755 908
24 424 998	Less cost of sales			28 082 035
26 421 147	Nett profit for the year			23 673 873

BALANCE SHEET AS AT 31 MARCH 1979

31 March 1978 R			31 March 1979 R
	LIABILITIES		
	MINT CAPITAL		
4 518 206	Balance 1 April 1978	5 028 911	
698 084	Additions during the year	172 273	
5 216 290		5 201 184	
187 379	Less sales, depreciation and write offs	233 563	
5 028 911	Balance 31 March 1979		4 967 621
1 038 319	OPERATING CAPITAL		2 014 004
2 730 489	SUNDRY CREDITORS		569 483
	RAND REFINERY LTD. - for gold deposited		
-	at statutory price		4 732 551
10 816 684	THE TREASURY - advances for purchases of bullion.		18 066 684
-	OPERATING SUSPENSE ACCOUNTS		-
1 031 467	ADVANCE PAYMENTS by customers		304 080
20 645 870			30 654 423
	ASSETS		
4 011 619	Buildings at cost	4 167 124	
155 505	Additions during the year	23 866	
4 167 124		4 190 990	
747 476	Less accumulated depreciation	781 672	
3 419 648	Value 31 March 1979		3 409 318
3 956 704	PLANT AND EQUIPMENT at cost	4 499 282	
542 578	Additions during the year	148 407	
4 499 282		4 647 689	
	Less sales, accumulated depreciation		
2 908 019	and write-offs	3 107 386	
1 591 263	Value at 31 March 1979		1 540 303
18 000	LAND		18 000
86 699	STORES at cost		110 833
1 432 995	SUNDRY DEBTORS		124 488
	BULLION (including bullion in coin stocks)		22 862 544
1 716 458	Gold	10 445 773	
9 973 021	Other	12 416 771	
793 032	COIN STOCKS (excluding bullion)		1 587 588
101 080	WORK IN PROGRESS at cost		252 656
69 897	OPERATING SUSPENSE ACCOUNTS		66 005
3 553	MINT MUSEUM STOCK at cost		3 868
1 440 224	CASH with Paymaster-General		678 820
20 645 870			30 654 423

1. Comparative Statement of Sales

	1978/79 R	1977/78 R	1976/77 R
Circulation coin	23 449 205	25 656 877	12 083 600
Proof and collector's coin	5 460 902	4 273 837	3 835 152
Gold and silver	22 155 462	19 809 999	13 655 196
Die and Medal products, Laboratory and Sundry Services	177 697	140 228	208 215
Manufacture of gold coins for Chamber of Mines	495 048	420 322	282 112
Manufacture of coin for foreign Governments	-	529 739	546 102
Chamber of Mines copper	17 594	15 143	-
Total	51 755 908	50 846 145	30 610 377

The slight increase in sales in 1978/79 over 1977/78 is due mainly to an increase in the demand for gold for industrial purposes.

2. Comparative statement of conversion and sales costs

	1978/79 R	1977/78 R	1976/77 R
Conversion costs	1 273 772	1 074 559	973 073
Selling costs	321 106	380 563	309 500
Total	1 594 878	1 455 122	1 282 573

Although selling costs in 1978/79 declined appreciably in comparison with 1977/78 due to a lesser demand for circulation coin the increase in total costs namely 9,6% should be regarded as normal considering the escalation in the costs of services and stores.

3. Operating results

	1978/79 R	1977/78 R	1976/77 R
a) Combined			
Sales	51 755 908	50 846 145	30 610 377
Nett profit	23 673 873	26 421 147	12 651 539
% Profit on sales	45,74	51,96	41,33
b) Circulation coin			
Sales	23 449 205	25 656 877	12 083 600
Nett profit	21 295 486	22 482 653	9 091 979
% Profit on sales	90,81	87,63	75,24
c) Proof and collector's coin			
Sales	5 460 902	4 273 837	3 835 152
Nett profit	1 881 283	3 477 865	3 103 260
% Profit on sales	34,45	81,38	80,92
d) Sundry accounts			
Sales	22 845 801	20 915 431	14 691 625
Nett profit	497 104	482 318	456 300
% Profit on sales	2,18	2,31	3,11

The outstanding feature of the above comparative statement is the reduced profit (%) on proof and collector's coin. This is due mainly to the sharp increase in the market price of gold.

4. Comparative statement of capital additions

	1978/79	1977/78	1976/77
	R	R	R
Buildings	23 866	155 505	143 443
Machinery and equipment	148 407	542 578	559 337
	172 273	698 083	702 780

The building programme of the S.A. Mint was completed during March, 1978. No major projects were undertaken during 1978/79.

5. Circulation coin manufactured for foreign governments

	1978/79	1977/78	1976/77
	R	R	R
Face value	-	1 183 400	1 617 200

6. Gold coin delivered to the Chamber of Mines

	Number of pieces		
	1978/79	1977/78	1976/77
Krugerrand	5 262 480	4 207 219	2 715 985
R2 gold	200 000	-	210 275
R1 gold	-	-	-
	5 462 480	4 207 219	2 926 260

7. Comparative statement of stores issued

	1978/79	1977/78	1976/77
	R	R	R
Direct purchases	86 207	98 959	72 924
Issued ex stores	148 789	116 652	99 065
	234 996	215 611	171 989

Stores referred to do not include bullion. Bullion issues amounted to R27,9 million against R26,9 million in 1977/78. The increase of 3,72% over 1977/78 is due to an increase of R2 345 463 in the sales of gold and silver including handling and a nominal profit.

CHAPTER II - ADMINISTRATION

A. MINT OFFICE.

The Mint Office is responsible for the purchase of all coinage metals, the issue thereof to the production sections and the issue of all coins, medals and products manufactured by the S.A. Mint.

1. GOLD.

The average selling price of Industrial gold was R176,75 per fine ounce, compared with R132,58 in the previous year. The selling price of gold sold for Industrial purposes is determined in accordance with the average ruling prices on the free market over a period of a month, as adjusted and approved by the South African Reserve Bank, plus a commission of 1%.

A total fine mass of 3 613,35 kg of gold was sold during the year whereas 4 164,13 kg was sold during the previous year.

Gold coins:

A total of 38 000 gold proof coins (19 000 of R2 and 19 000 of R1) was struck for sale in 10 000 proofsets of 10 coins (R2 - $\frac{1}{2}$c) and 9 000 proofsets of 2 coins (R2 - R1).

In addition to the above 11 200 prooflike R2 coins, 13 100 prooflike R1 coins and 10 000 proof Krugerrand coins were minted for sale as well as 5 262 480 Krugerrand coins and 200 000 R2 coins for the Chamber of Mines of South Africa. A further 23 251 uncirculated R1 coins were minted for members of the S.A. Manufacturing Jeweller's Association.

Gold transactions:

There was a decrease in the total fine mass of the gold transacted as compared with the previous year as follows:-

	1978/79	1977/78
	kg	kg
Received from the Rand Refinery Ltd.	3 583,61	4 614,43
Granulated and dental gold sold	3 613,35	4 164,13
Medals, wire and sheet gold sold	15,23	12,21
Mass of R2, R1, Krugerrand	735,20	671,69
Transferred to Die & Medal Section	12,70	25,01
Transferred to Coinage Section ex Rand Refinery	830,88	401,12
	8 790,97	9 888,59

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2. SILVER

Silver transactions by mass

	1978/79 kg	1977/78 kg
Bought from Rand Refinery Ltd.	11 472,90	15 398,82
Coin withdrawn from circulation 500 Std. 800 Std.	-	-
Granules and strip sold	11 269,84	15 867,33
Medals & other items sold	200,83	145,88
Coin received from Coinage Section	204,23	228,40
Issues for various alloys	137,41	147,45
	23 285,21	31 787,88

Purchase of silver

11 472,90 kg of silver was purchased from the Rand Refinery Ltd., mainly for sale in granulations.

Basic selling price of silver

It was necessary for the Mint, with Treasury approval, to vary its basic selling price of silver in conformity with the rise and fall in the overseas market price. Silver is sold at the daily cash price ruling on the London Metal Market. The average selling price was R5,24 per fine ounce compared with R4,15 in the previous year. The total fine mass sold during the year was 11 269,84 kg whereas 15 867,33 kg was sold during the previous year.

Withdrawal of 500 Std. and 800 Std. silver coin for remelting

During the year no silver coins were withdrawn from circulation.

3. NICKEL

Nickel transactions by mass in kg

	1978/79	1977/78
Blanks purchased for coinage	473 865,50	998 899,70
Mass of coins received	352 322,50	829 841,93
Transferred to Die & Medal Section	14,17	10,48
	826 202,17	1 828 752,11

4. BASE METALS

The following are the receipts of and the transactions in base metals. This involved mainly issues to the Coinage Section for the production of gold, silver and bronze coin as well as a small amount of copper for the alloying of the different grades of gold sold to industry.

Base metals transactions by mass

	kg
Bronze issued to Coinage Section	698 166,78
Bronze coin received from Coinage Section	407 502,40
Metals for various alloys	75,56
Bronze issued to Die & Medal Section	-
Bronze received from Die & Medal Section	128,56
Rhodesian bronze coin received from Coinage Section	-
Copper issued to Rand Refinery Ltd.	14 214,50
	1 120 087,80

Withdrawal of bronze coin

During the year coin to the value of R1 094,86 was withdrawn from circulation.

5. COIN RECEIVED AND ISSUED

The following is a comparative schedule in respect of gold, silver, nickel and bronze coins received from the Coinage Section and issued by the Mint Office:-

Denomination	Receipts from Coinage Section 1978/79	Receipts from Coinage Section 1977/78	Issued to Banks etc. during 1978/79	Issued to Banks etc. during 1977/78
Gold				
2 Rand	60 400,00	64 000,00	60 972 00	59 878,00
1 Rand	55 351,00	47 260,00	53 740,00	46 418,00
Silver				
1 Rand	17 000,00	19 000,00	23 066,00	25 901,00
Nickel				
1 Rand	13 466 015,00	31 096 562,00	21 911 015,00	18 121 075,00
50c	1 424 014,50	4 265 622,50	357 005,50	1 842 874,00
20c	2 149 107,80	4 818 447,20	260 802,20	1 764 549,60
10c	1 220 600,00	3 090 300,00	83 401,10	1 772 774,80
5c	1 013 174,40	2 229 880,35	131 700,55	1 159 887,40
Bronze				
2c	552 020,00	985 280,00	390 680,22	522 754,96
1c	1 006 870,00	506 170,00	339 940,11	377 377,48
½c	50 165,00	50 195,00	11 453,62	50 171,14
	21 014 717,70	47 172 717,05	23 623 776,30	25 743 661,38

6. PROOFSETS

The Mint produced 10 000 ten coin proofsets (R2 - ½c), 9 000 gold proofsets (R2 - R1) and 7 000 eight coin proofsets (R1 - ½c). 10 000 Proof quality Krugerrands were minted.

7. COINS MANUFACTURED FOR OTHER COUNTRIES

Rhodesian coins:

	1978/79	1977/78
½c	-	R25 000
1c	-	R300 000
5c	-	R255 300
10c	-	-
20c	-	R603 100
25c	-	-

8. PACKING AND DESPATCH SECTION

The number of parcels despatched by post and by rail compared with the previous year was:-

	1978/79	1977/78
Parcels despatched by Post	18 658	16 425
Parcels other than coin, despatched by rail	11 (230 kg)	3 (75 kg)
Boxes of coin despatched by rail	2 412 (157 434 kg)	9 274 (594 874 kg)
Boxes of Krugerrands collected by Rand Refinery ...	10 525 (189 448,27 kg)	8 415 (142 754,94 kg)

B. PERSONNEL

1. SCHEDULE OF POSTS AND PERSONNEL EMPLOYED

The following comparative schedule shows the number of posts and the personnel employed at the end of the year as compared with the previous year:-

Categories	1979		1978	
	Posts	Personnel	Posts	Personnel
a) Administrative	9	8	9	7
b) Professional	3	2	3	2
c) Technical	14	10	14	11
d) Clerical	16	6	16	6
e) General Divisions A & B excluding items (g) to (j)	31	17	31	17
f) Temporary employees against posts under items (a) to (e)	-	14	-	14
g) Senior Special Craftsman	5	2	5	3
h) Special Craftsman	15	10	15	7
i) Foremen	5	2	5	2
j) Male Operators	22	17	22	17
k) Apprentices	4	2	4	2
l) Female Operators & Supervisors	47	37	47	42
m) Guards & Bossboys	17	17	17	17
n) Messengers, Cleaners & Labourers	128	109	128	112
Total	316	253	316	259

There was a decrease of 6 in the number of persons employed while the number of posts remained unchanged.

2. PERSONNEL TURNOVER

Appointments	127
Resignations	137

3. POST STRUCTURAL CHANGES

The number of authorised posts remained unchanged.

4. PERSONNEL CHANGES

a) The following employees retired on pension:-

i) Miss M. McDonald, Assistant Accountant, on 1st June, 1978, after 40 years of service.

ii) Mr. Elias Motabatse on 1st January, 1979, after 29 years of service.

iii) Mr. Solomon Masilela, Labourer, on 1st January, 1979, after 12 years of service.

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b) Two workers died during the year:-

i) Mrs. C.J. Ludick, on 19th November, 1978, after 13 years of service.

ii) Mr. James Matlala, on 21st December, 1978, after 2 years of service.

c) The following officers were transferred to and from other Departments:-

i) Mr. P.W. Pinkham, Senior Accountant, to the Department of Finance - Treasury, with effect from 1st December, 1978.

ii) Mr. T.B. Barnard, Assistant Chief Accountant, from the Department of Indian Affairs with effect from 1st December, 1978.

d) The following officers were transferred on promotion:-

i) Mr. J. Venter, Administrative Officer to Control Administrative Officer from the Department of Health with effect from 1st February, 1979.

ii) Mr. M.A. Venter, Assistant Accountant to Accountant to the Department of Water Affairs with effect from 1st February, 1979.

e) Merit Advancement was awarded to Messrs. L.P. Boshoff, A. Nel and Mrs. F.J. Duvenhage.

C. MINT MUSEUM AND LIBRARY

A. Gifts

1. Gifts received:

The Cape Mint	One silver medal - Opening of the Cape Mint.
Casa de Moneda de Chile	One silver medal depicting First Director of the Mint.
Royal Mint of Norway	Type set of coins for 1976, 1977 & 1978. One 5 Kroner Commemorative coin 1978. One 50 Kroner Jubilee coin 1978.
Banco Central Do Brazil	One set of circulation coins dated 1978.
Mint Bureau Ministry of Finance, Japan	One set of circulation coins dated 1978.
Staatliche Münze Stuttgart	One medal depicting 600 years of minting.
Bank of Israel	Two sets of trade coins 1979.
Royal Canadian Mint	One 1978 $100 gold coin in a leatherbound case. One proof silver dollar.
Mrs. M. Walker, daughter of the late Mr. John Chisholm who worked at the Mint approx. 25 years ago.	Several handmade silver and copper articles bequethed to the Mint Museum with Treasury approval.

2. Gifts presented:

Director of the Franklin County Historical Society in Ottawa.	One uncirculated coin-set dated 1978
Royal Canadian Mint	Three 1978 short proofsets to three senior officials of the Royal Canadian Mint. One 1978 long proofset to the Director of the Royal Canadian Mint.

B. Visitors

The new S.A. Mint was officially opened on the 22nd of November, 1978, and visitors were permitted as from the beginning of 1979. Up to 31st March, 1979, 150 visitors were received.

CHAPTER III - PRODUCTION

1 MELTING SECTION

The following schedules show the activities of the section for the year:-

Gold		
Fine gold granules		566,538 kg
22ct gold granules		729,292 kg
18ct gold granules		285,560 kg
9ct gold granules		113,844 kg
18ct gold for Die & Medal		42,981 kg
	Total	1 738,215 kg
Silver		
925 Std. silver for Die & Medal		446,838 kg
Fine silver granules		11 421,212 kg
800 Std. silver for R1		760,591 kg
	Total	12 628,641 kg
Bronze		
Coinage bronze		1 115 126,000 kg
	Total	1 115 126,000 kg

2. ROLLING SECTION

The production in this section was as follows:-

a) **Bars rolled**		
800 Std. silver		1 641,298 kg
Coinage bronze		767 055,570 kg
9ct gold for Die & Medal		15,224 kg
18ct gold for Die & Medal		153,533 kg
925 Std. silver for Die & Medal		520,119 kg
Fine silver for Die & Medal		2,876 kg
Bronze for Die & Medal		4,293 kg
	Total	769 392,913 kg
b) **Blanks annealed and cleaned**		
Krugerrand proof		10 000 pieces
Std. gold Krugerrand		5 262 480 pieces
Proof gold R2		30 200 pieces
Proof gold R1		55 351 pieces
800 Std. silver R1		18 000 pieces
2c, 1c & ½c bronze		140 000 000 pieces
Uncirculated sets (R1 - ½c)		160 000 pieces
	Total	145 536 031 pieces
	Total Mass	618 329,380 kg

c) Blanks cleaned

R1 Nickel		14 000 000 pieces
50c Nickel		3 000 000 pieces
20c Nickel		11 000 000 pieces
10c Nickel		12 500 000 pieces
5c Nickel		20 500 000 pieces
	Total	61 000 000 pieces
	Total Mass	363 500,000 kg

3. COINAGE SECTION

a) The number of coins minted during the year amounted to 203 425 102 pieces as reflected in the following schedule:-

COIN PRODUCTION

Denominations	Bars Cast kg	Bars Rolled kg	Blanks Coined kg	Good Coin Produced 1978/79 No. of pieces	Good Coin Produced 1977/78 No. of pieces
Gold					
Krugerrand			339,3107	10 000	8 500
R2			241,2436	30 000	32 000
R1			221,0774	55 351	47 260
TOTAL			801,6317	95 551	87 760
800 Std. Silver					
R1	760,5914	1 641,2984	255,0000	17 000	19 000
TOTAL	760,5914	1 641,2984	255,0000	17 000	19 000
Nickel					
R1			161 592,1800	13 466 015	27 640 223
50c			27 056,2750	2 848 029	8 531 245
20c			64 473,2340	10 745 539	24 092 236
10c			48 824,0000	12 206 000	30 903 000
5c			50 658,7200	20 263 488	44 597 607
TOTAL			352 604,4090	59 529 071	135 764 311
Bronze					
2c)			110 404,0000	27 601 000	49 264 000
1c)	1 115 126,00	767 055,57	302 061,0000	100 687 000	50 617 000
½c)			20 066,0000	10 033 000	10 039 500
TOTAL	1 115 126,00	767 055,57	432 531,0000	138 321 000	109 920 500
Cupro Nickel					
Rhod. 20c					3 015 500
Rhod. 5c					5 016 000
TOTAL					8 031 500
Bronze					
Rhod. 1c					30 000 000
Rhod. ½c					5 000 000
TOTAL					35 000 000
Chamber of Mines					
Krugerrand			178 561,2000	5 262 480	4 207 219
R2				200 000	
TOTAL			178 561,2000	5 462 480	4 207 219
GRAND TOTAL			964 753,2407	203 425 102	293 030 290

b) Proofsets

The following proofsets were minted and delivered to the Mint Office:-

SOUTH AFRICAN

a) Gold proofsets (R2 - R1)	9 000 sets
b) Long proofsets (R2 and R1 gold, R1 - ½c)	10 000 sets
c) Short proofsets (R1 - ½c)	7 000 sets
d) Proof Krugerrand	10 000 pieces

c) Uncirculated and prooflike pieces and sets

a) Prooflike R2 gold	11 200 pieces
b) Uncirculated and prooflike R1 gold	36 351 pieces
c) Uncirculated (R1 - ½c)	20 000 sets

4. DIE AND MEDAL SECTION

1. The number of units produced in this section during the year amounted to:-

Coinage dies	7 587
Dies for medals	71
Medals and badges	22 105
Gold Jewellers' articles	38
Silver Jewellers' articles	145
Sundries Die and Medal items	60 961
Articles engraved	784
S.A. Police, S.A. Defence, Prisons and S.A.R. Police medals stamped	2 644
Medals numbered by hand	5 085

The following medals were produced:-

1. Official Opening of the S.A. Mint Medal:
One 44,5 mm diameter 18ct gold medal, two 63 mm diameter silver medals, two 18ct gold neck medallions and 270 bronze medals (160 44,5 mm and 110 63 mm) were struck for this occasion.
Obverse: Depicting the newly completed S.A. Mint building with the wording: "Suid-Afrikaanse Munt - South African Mint". Modelled by A. Sutherland.
Reverse: A replica of the sculpture by Danie de Jager in the entrance hall of the S.A. Mint and unveiled by the State President Mr. B.J. Vorster. Wording: "Opening 22 Nov. 1978". Modelled by L.P. de Lange.

2. Settlers' Way Inauguration Medal:
63 mm Diameter medals. One 18ct gold, one 9ct gold, one silver gilt, 30 silver and 40 bronze.
Obverse: Coat of Arms of the City of Port Elizabeth. Modelled by A. Sutherland.
Reverse: A symbolic presentation of the newly completed highway, with the 1820 Settlers' Monument in the background. Wording: "Settlers' Way - Setlaars' weg, 4 Sept. 1978". Designed and modelled by L.P. de Lange.

3. Tercentenary Medal of Stellenbosch:
38 mm Diameter medals struck in 18ct gold, silver and bronze. 200 Sets of 3 medals in 18ct gold, silver and bronze, 100 silver and 100 bronze.
Obverse: Coat of Arms of Stellenbosch. Modelled by A. Sutherland.
Reverse: The old gunpowder storage building with "Papegaai Mountain" in the background. Wording: "Stellenbosch 1679 - 1979". Modelled by L.P. de Lange.

4. Reza Shah of Iran Medal:
One 63 mm diameter medal struck in 18ct gold.
Obverse: Effigy of both the Late Shah of Persia and his son, the Shah of Iran. Modelled by L.P. de Lange.
Reverse: Coat of Arms of Iran. Modelled by G. Blything.

5. National Party of the O.F.S. Medal:
Two 38 mm diameter medals struck in 18ct gold.
Obverse: Profile of the former State President C.R. Swart.
Reverse: Emblem of the Party, a gunpowder horn. Wording: "C.R. Swart Penning vir Troue Diens". Modelled by G. Blything.

6. The S.A. Biological Society Medal:
One 50 mm diameter bronze medal.
Obverse: Profile of the Late Dr. P. Fitzsimons. Wording: "Fitzsimons Memorial Medal - S.A. Biologiese Vereniging". Modelled by L.P. de Lange.
Reverse: Laurel wreath.

7. S.A. Academy for Science and Art:
One 38 mm diameter medal struck in 18ct gold.
Obverse: Profile of the Late Rev. Pieter van Drimmelen. Wording: "Ds. Pieter van Drimmelen Medalje". Modelled by L.P. de Lange.
Reverse: Reverse as all Academy medals.

8. University of S.A. Medal:
One 38 mm diameter 18ct gold medal.
Obverse: Profile of Prof. Geoff Cronje. Wording: "Geoff Cronje". Modelled by L.P. de Lange.
Reverse: Emblem of the University. Wording: "Criminological Achievement " in both official langueges. Modelled by A. Sutherland.

9. Standard Bank of S.A. Medal:
Nine 9ct gold medals, 38 mm diameter.
Obverse: Emblem of the Standard Bank of S.A. Wording: "Sport Toekenning". Modelled by A. Sutherland.
Reverse: Laurel wreath.

10. National Party of the Cape Medal:
Ten 9ct gold, 38 mm diameter medals.
Obverse: Profile of the Late Dr. D.F. Malan.
Reverse: Emblem of the Party, gunpowder horn. Wording: "D.F. Malan award for faithful service". Modelled by G. Blything.

11. Federasie van Afrikaanse Kultuurverenigings:
25 Sets of three commemorative medals 38 mm, in 18ct gold, silver and bronze. 75 9ct gold medals, 100 silver and 100 bronze medals.
Obverse: Existing die. F.A.K. Crest.
Reverse: Wording: "Federasie van Afrikaanse Kultuurverenigings 50 Jaar In Diens van Volk en Vaderland 1929 - 1979". Die cut by G. Blything.

CHAPTER IV - ENGINEERING

The function of the section is the installation and maintenance of machinery and plant in all sections of the Mint as well as the manufacture of tooling for production requirements.

In the execution of the section's function the following special tasks were performed:-

1. The commissioning of a new 300/370 mm Two High "Carl Wezel" Rolling Mill was finally completed during the year under review.

2. A steel framed partition with wood panelling door and large window was erected from floor to ceiling in the Die and Medal section to provide a dust screen between the die hardening section and the medal presses.

3. The archives section was equipped with steel framed shelves from floor to ceiling on two walls.

4. All 11 K.V. switchgear was subjected to overhaul and oil change and 6 associated transformers cleaned externally and cooling oil tested.

5. During the annual December shut-down period the walls of the Coinage section were painted and all broken and damaged floor tiles in this area and the Rolling room were renewed.

6. Both furnaces of the horizontal continuous casting plant for bronze were re-lined and the entire plant overhauled and made ready for the 1979 melting and casting programme.

7. One new milling machine and two new lathes were installed and commissioned in the Maintenance workshop.

8. The two large hot-water cylinders associated with the air conditioning system installed in the basement were cleaned internally and inspected in terms of the requirements of the Factories Act.
   Two compressed air receivers were similarly inspected and subjected to hydraulic test.

9. A system was devised and installed for the collection and reticulation of seepage water to the gardens of the Mint and the Director's residence.

10. Equipment was purchased and installed for the manufacture of plastic coin bags.

11. A new electronic mass meter was acquired for mass determination of bagged coins after counting and prior to storage or despatch.
    The equipment is provided with a preset go-no go facility with indicating lights as well as mass and identification print-out for tag attachment to the corresponding coin bag.

12. A new 2 ton platform type metric mass meter was installed in the coin blank storage section.

13. Hail guards for window protection on the Mint roof were re-painted.

14. The large rotary air compressor was stripped, overhauled and oil separating filters renewed.

CHAPTER V - LABORATORY SERVICES.

This section is responsible for process and quality control and the assaying of metals for the manufacture of coins and medals.

Assay work is carried out for the South African Police - Diamond and Gold Branch - in connection with the combatting of illicit precious metal dealings, fraud and counterfeit coins.

The S.A. Bureau of Standards submits various gold and silver samples for assay in connection with the use of the Bureau Hall-mark on gold and silver articles by manufacturers.

The following work was carried out in the section during the year:-

1. a) Precious Metal Assays

Gold:	Mint Office	1 035 samples	
	S.A. Bureau of Standards	36 samples	1 071
Silver:	Mint Office	127 samples	
	S.A. Bureau of Standards	17 samples	144
		TOTAL	1 215

b) Other Metal Assays

Copper	468 samples
Zinc	93 samples
Tin	93 samples
Phosphoros	93 samples
Nickel	10 samples

c) Illicit Gold Trade

171 Exhibits in 112 cases were assayed.
In addition 144 samples of gold were prepared and assayed for trap purposes.

d) General Physical Testing

a)	i)	Incoming purchased nickel coin blanks	1 000
	ii)	Manufactured bronze coin blanks	5 897
	iii)	Manufactured coins (full range)	10 152
	iv)	Krugerrand blanks	3 963
	v)	Krugerrand coins	1 810
		TOTAL	22 822

(b) Die Inspection

New dies (100% inspection)	231
Used dies (sample inspection)	47
TOTAL	278

It is the intention to increase the Assay Office personnel by one technical assistant during the coming year in order to facilitate the inspection of production output (blanks, coins and dies) in greater depth than in the past and thereby tighten quality control.